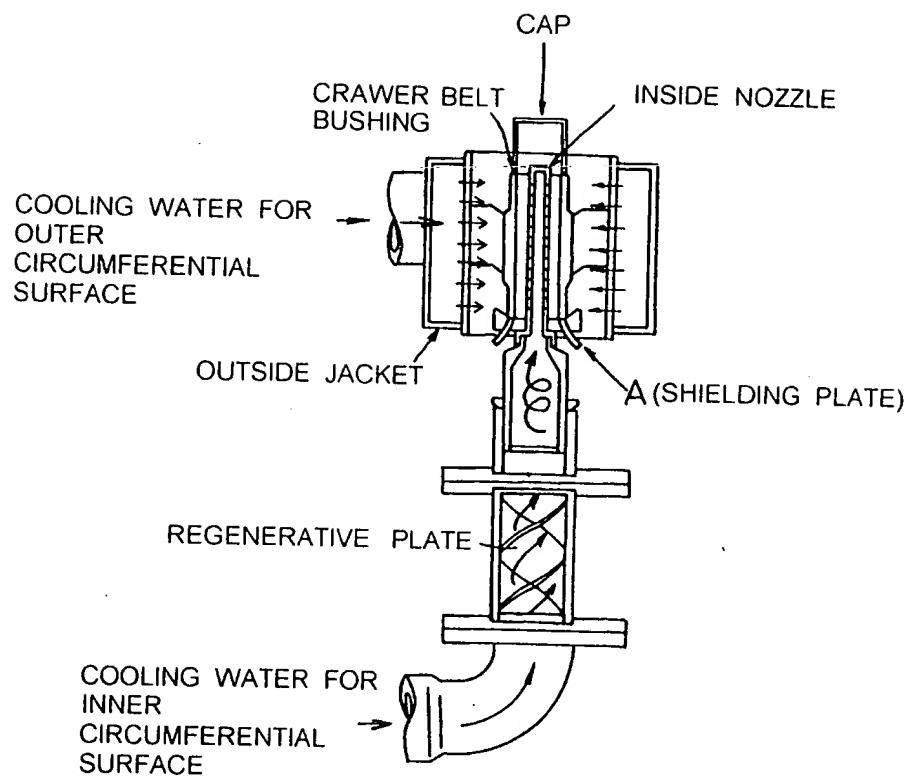


FIG.1



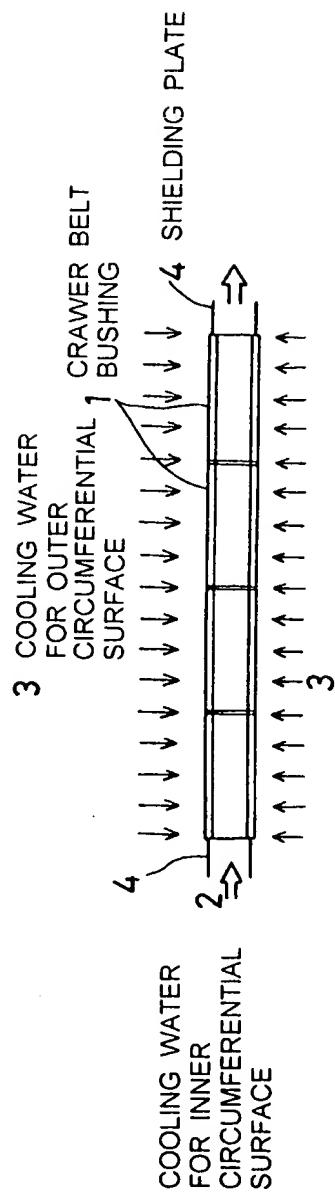


FIG. 2 (a)

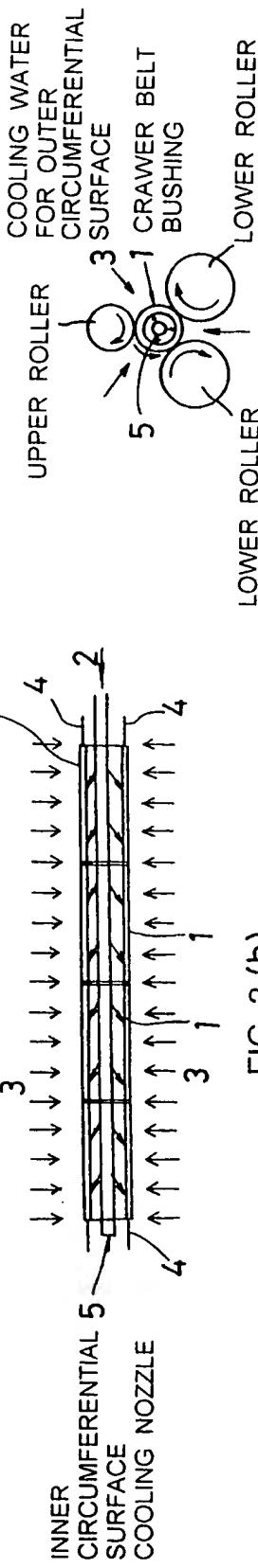


FIG. 2 (b)
FIG. 2 (c)

FIG.3

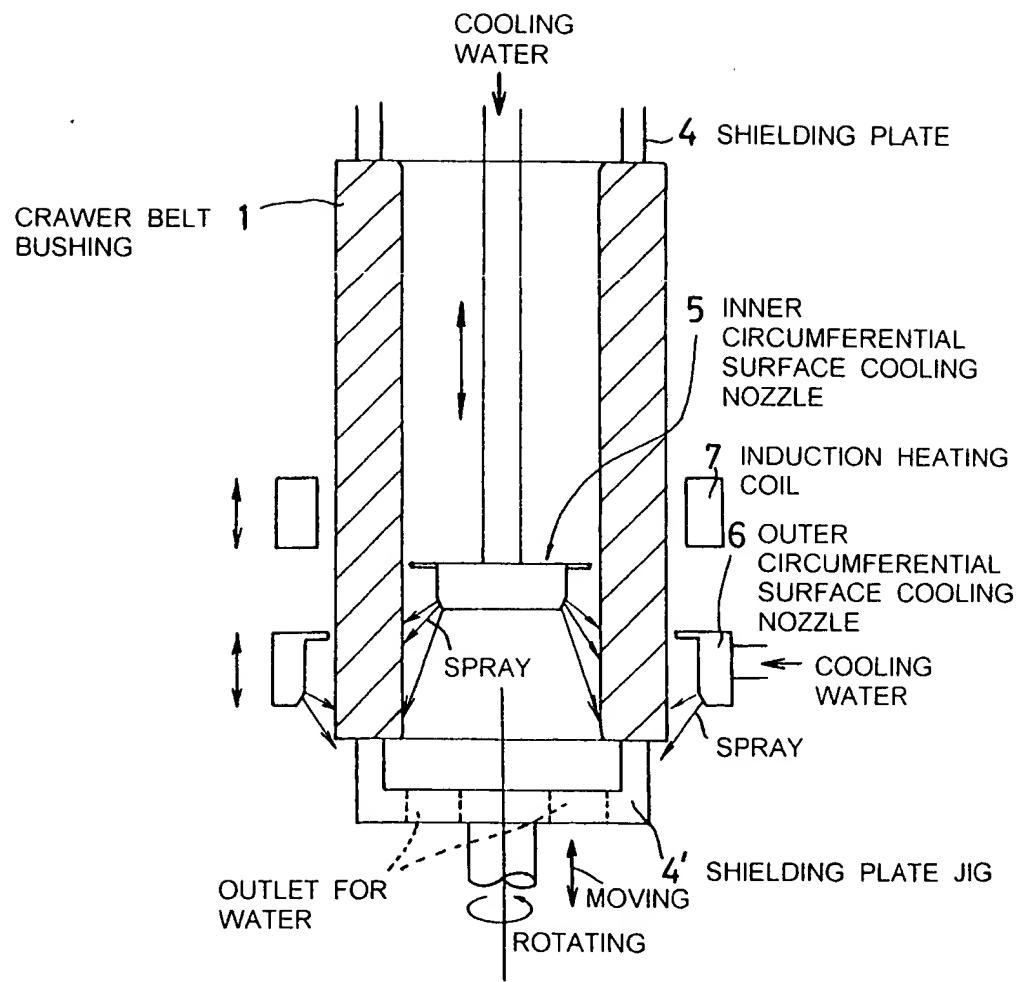


FIG.4

0 9 8 7 6 5 4 3 2 1 0 9

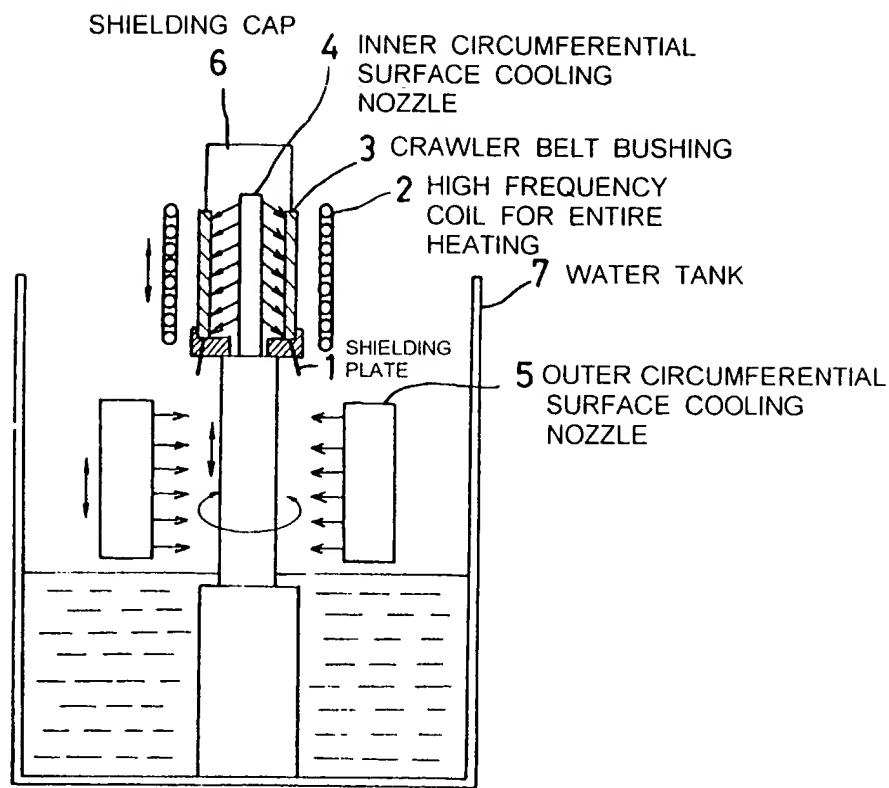


FIG. 5

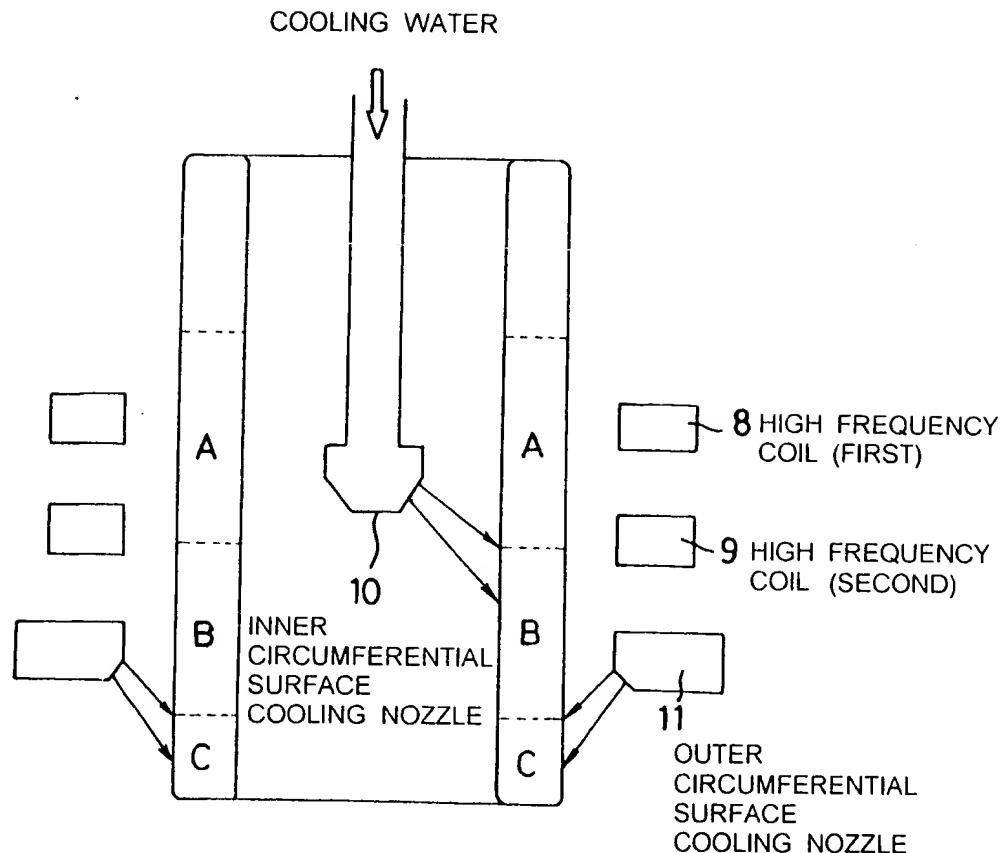


FIG. 6

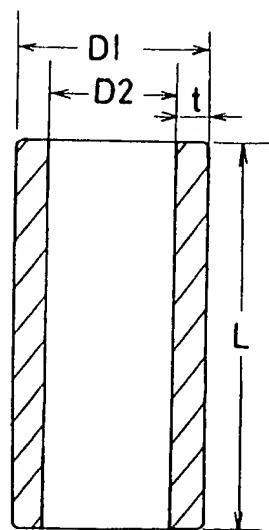


FIG. 7

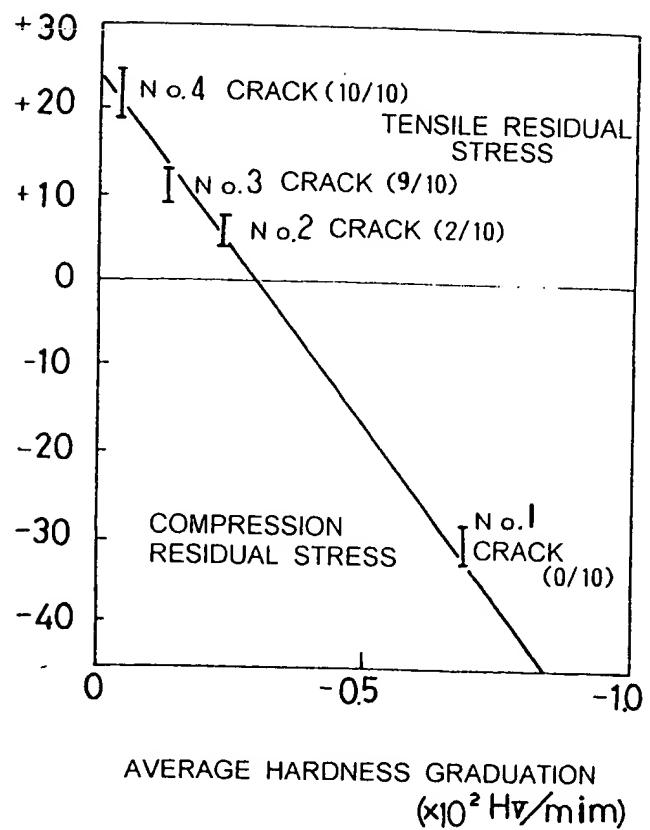


FIG. 8

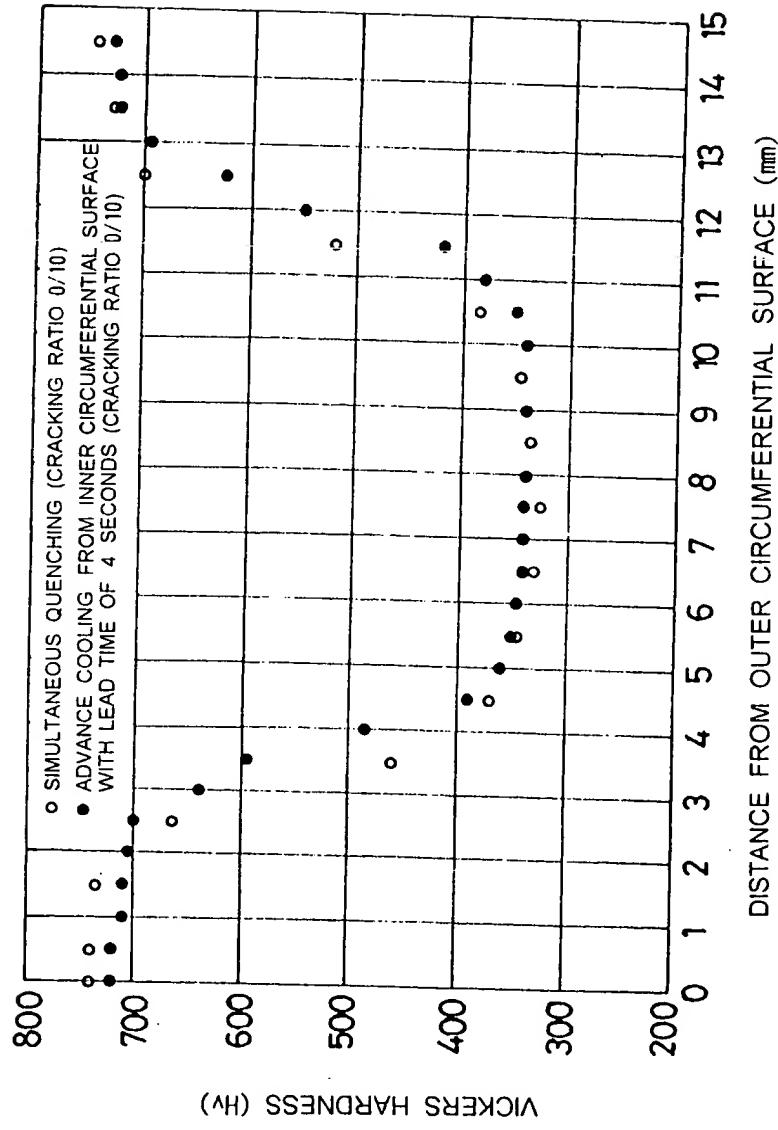


FIG. 9

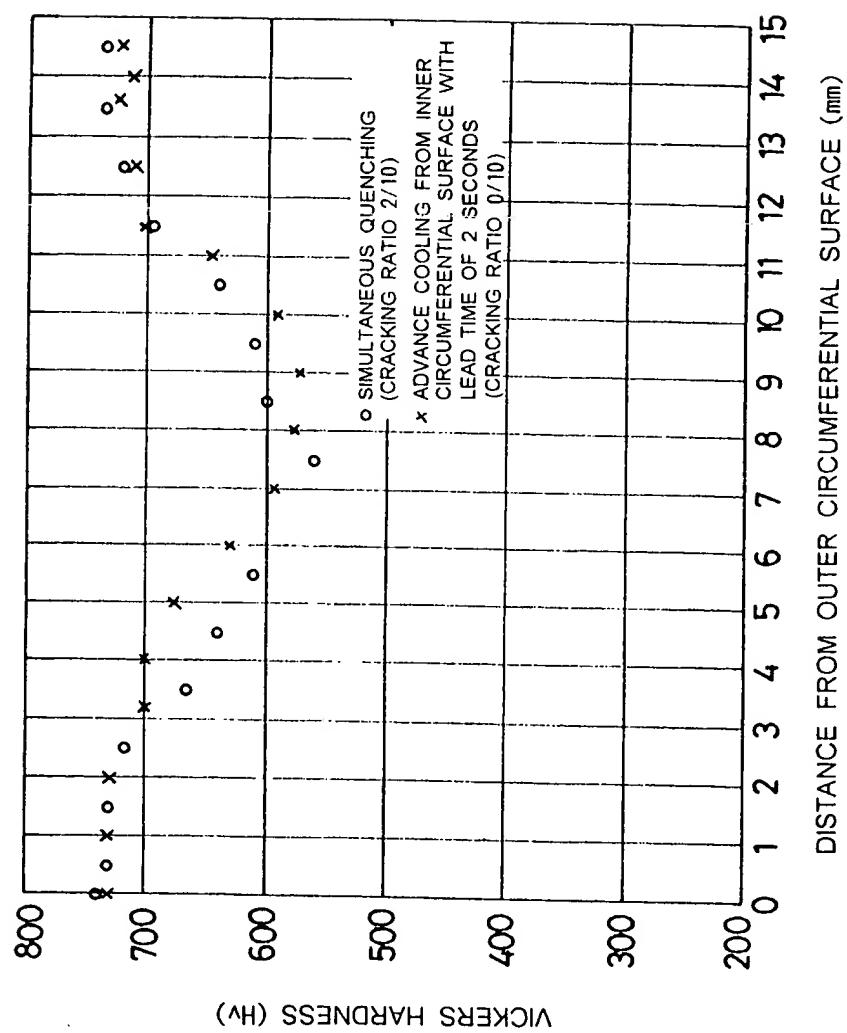


FIG. 10

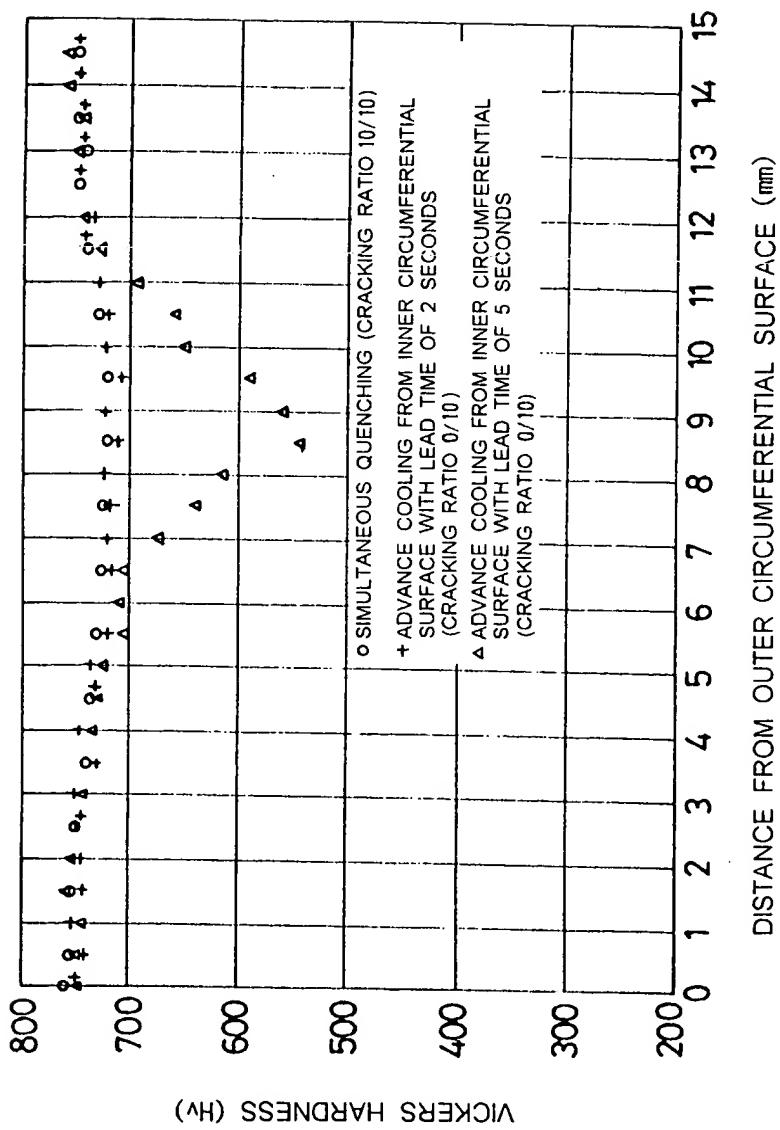


FIG. 11

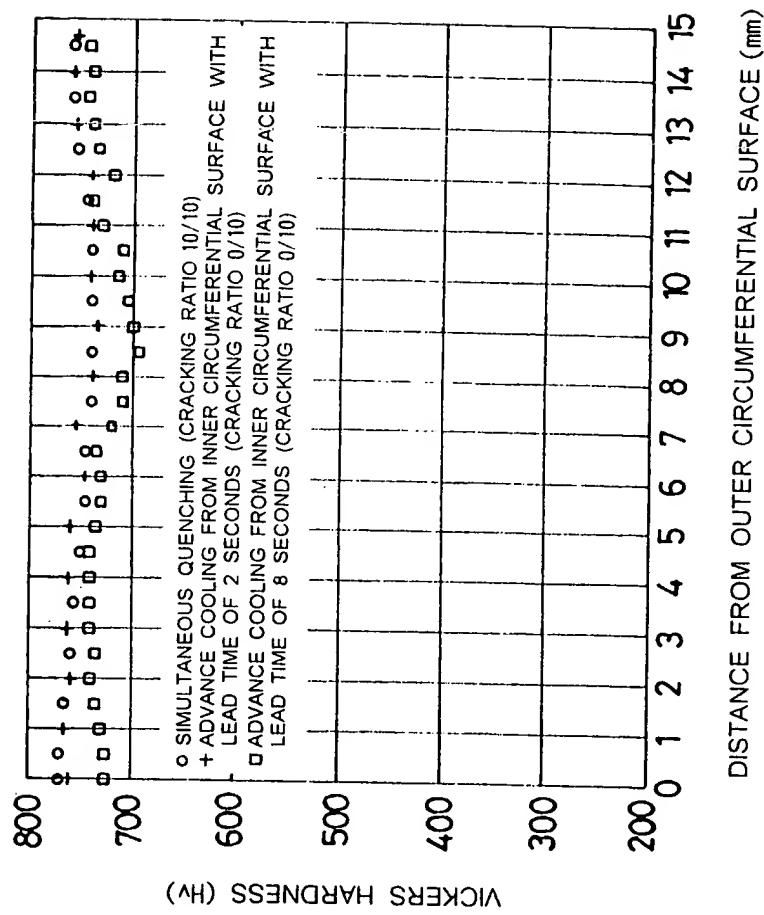


FIG. 12

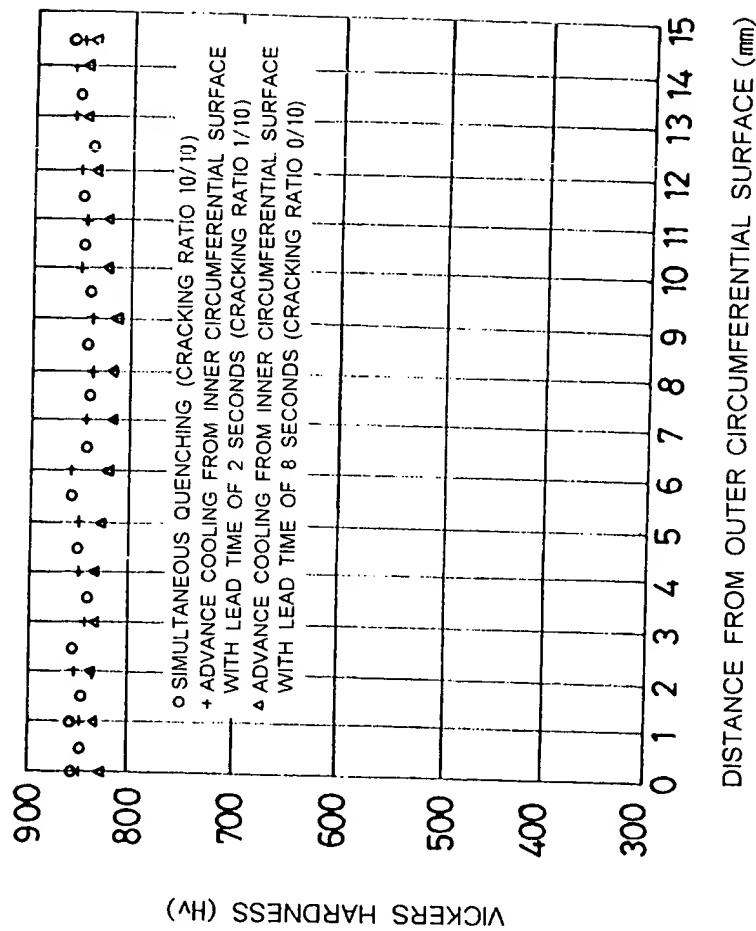


FIG. 13

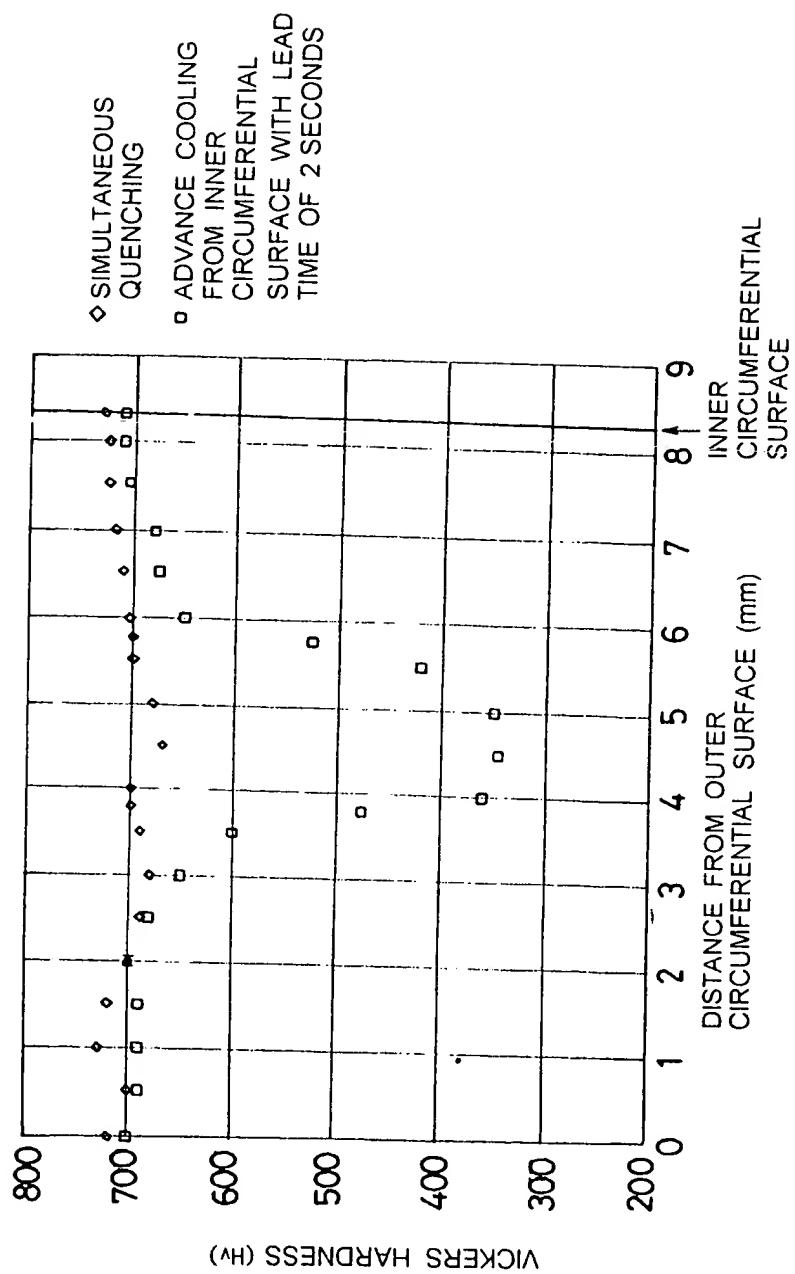


FIG. 14

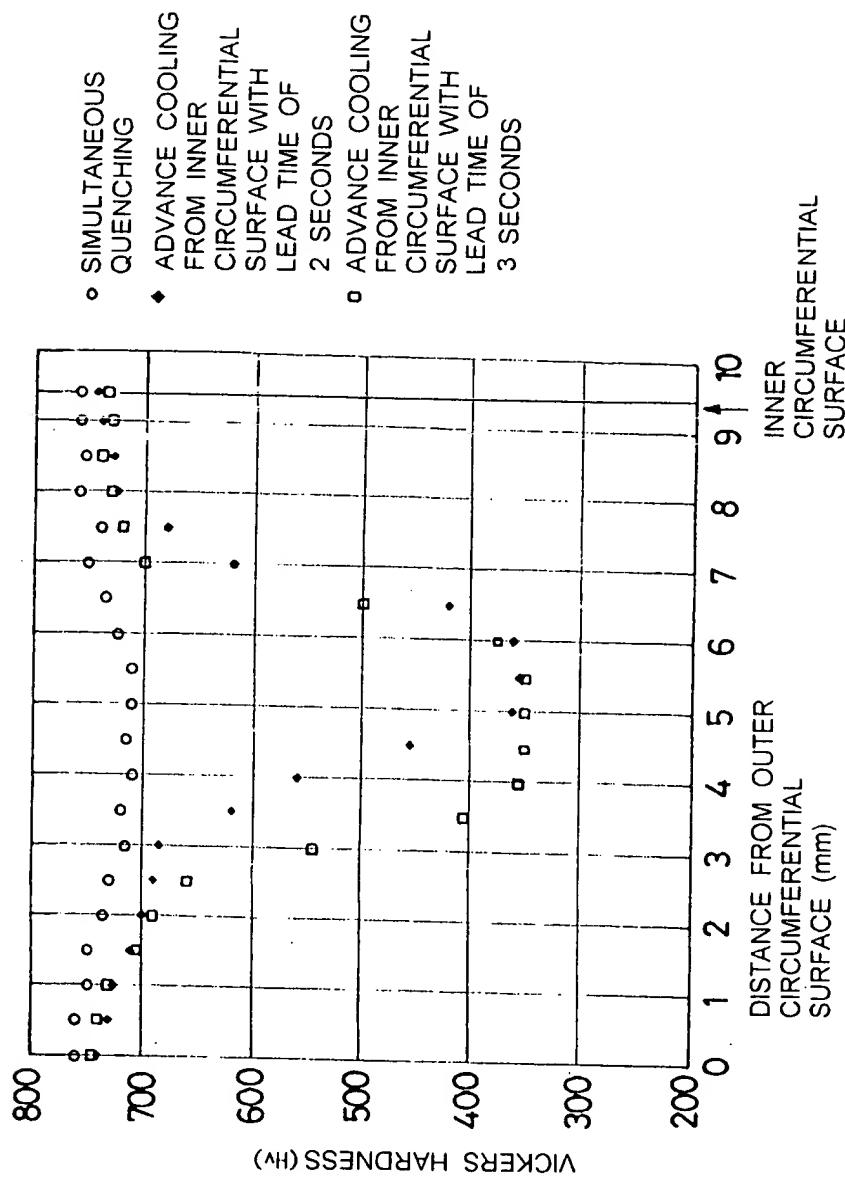


FIG. 15

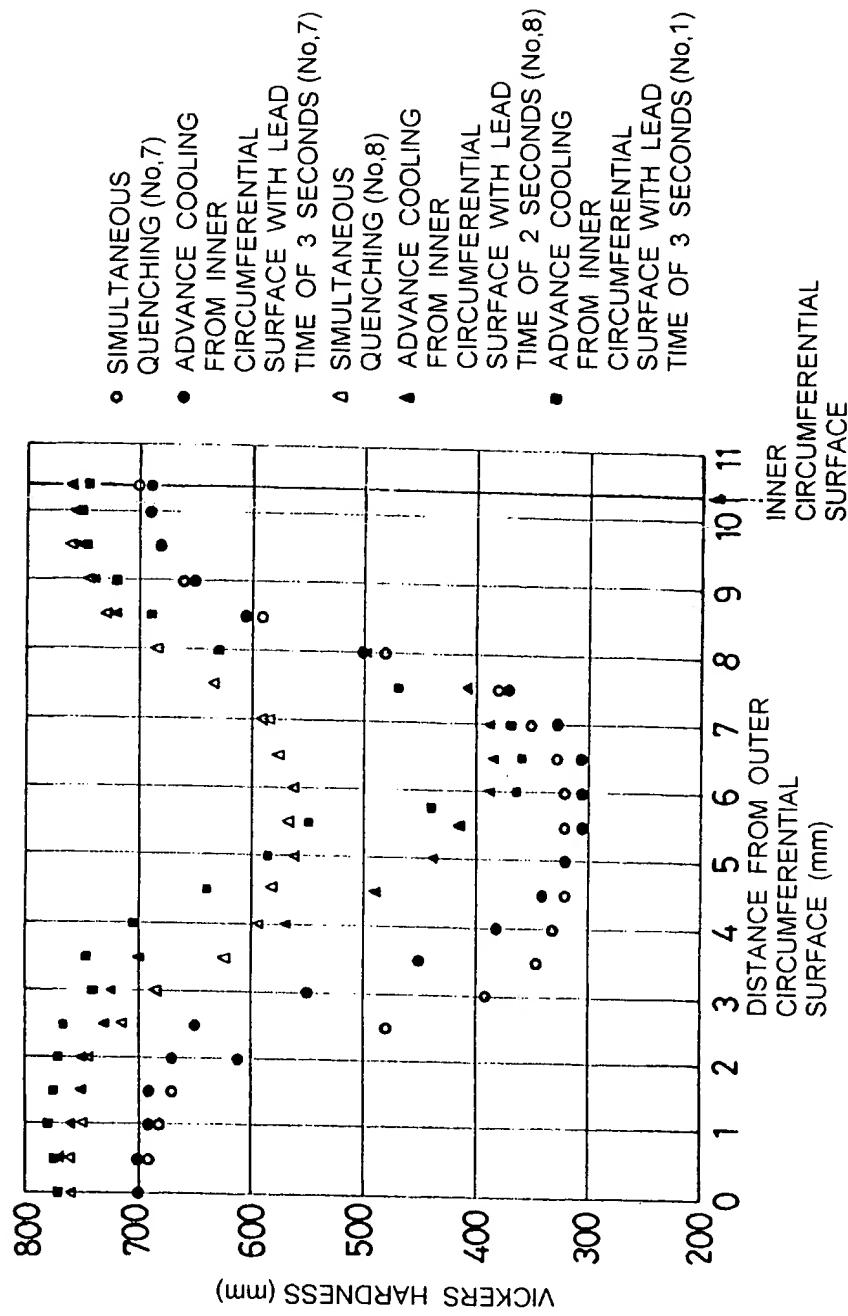


FIG. 16

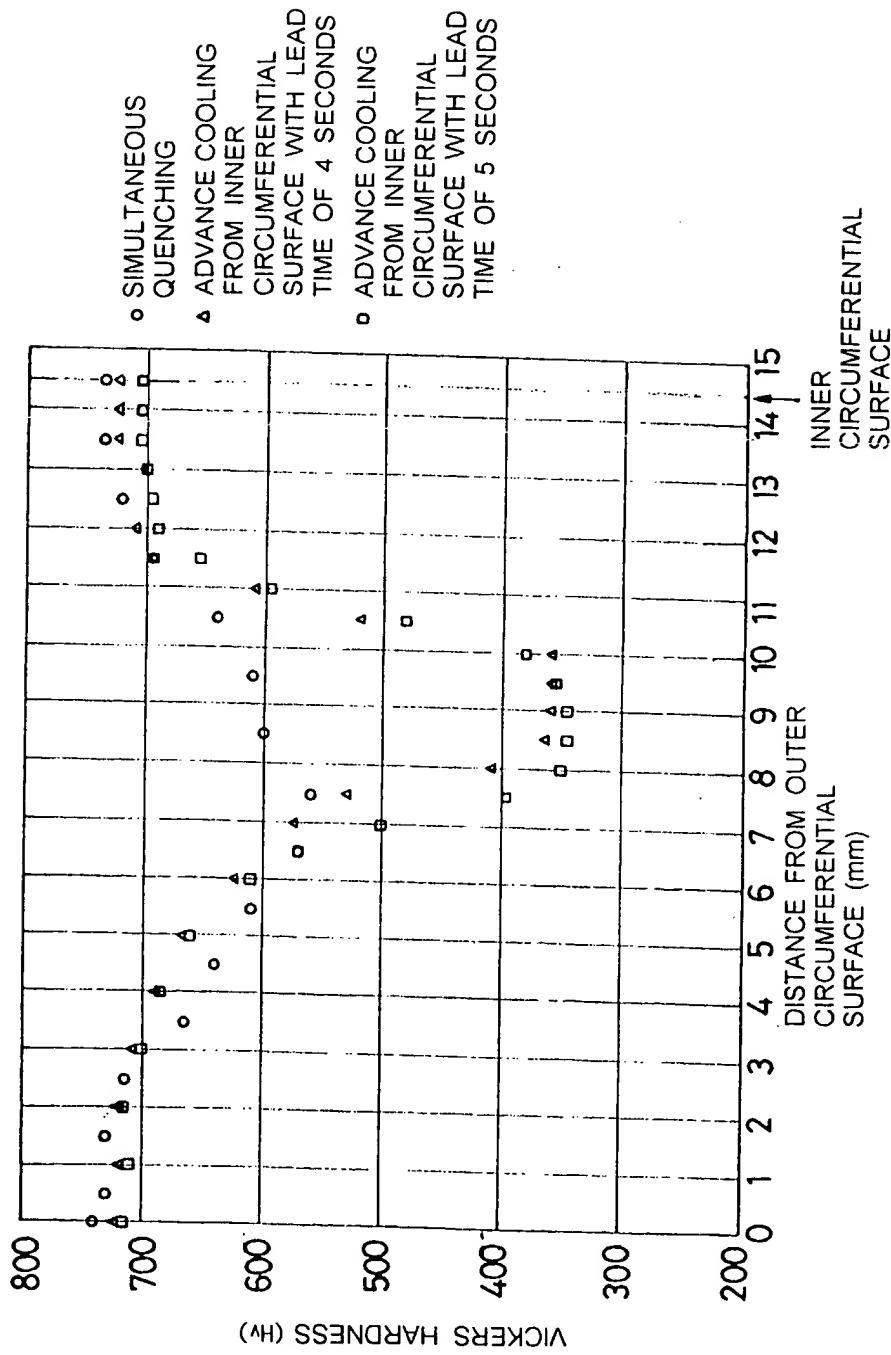


FIG. 17

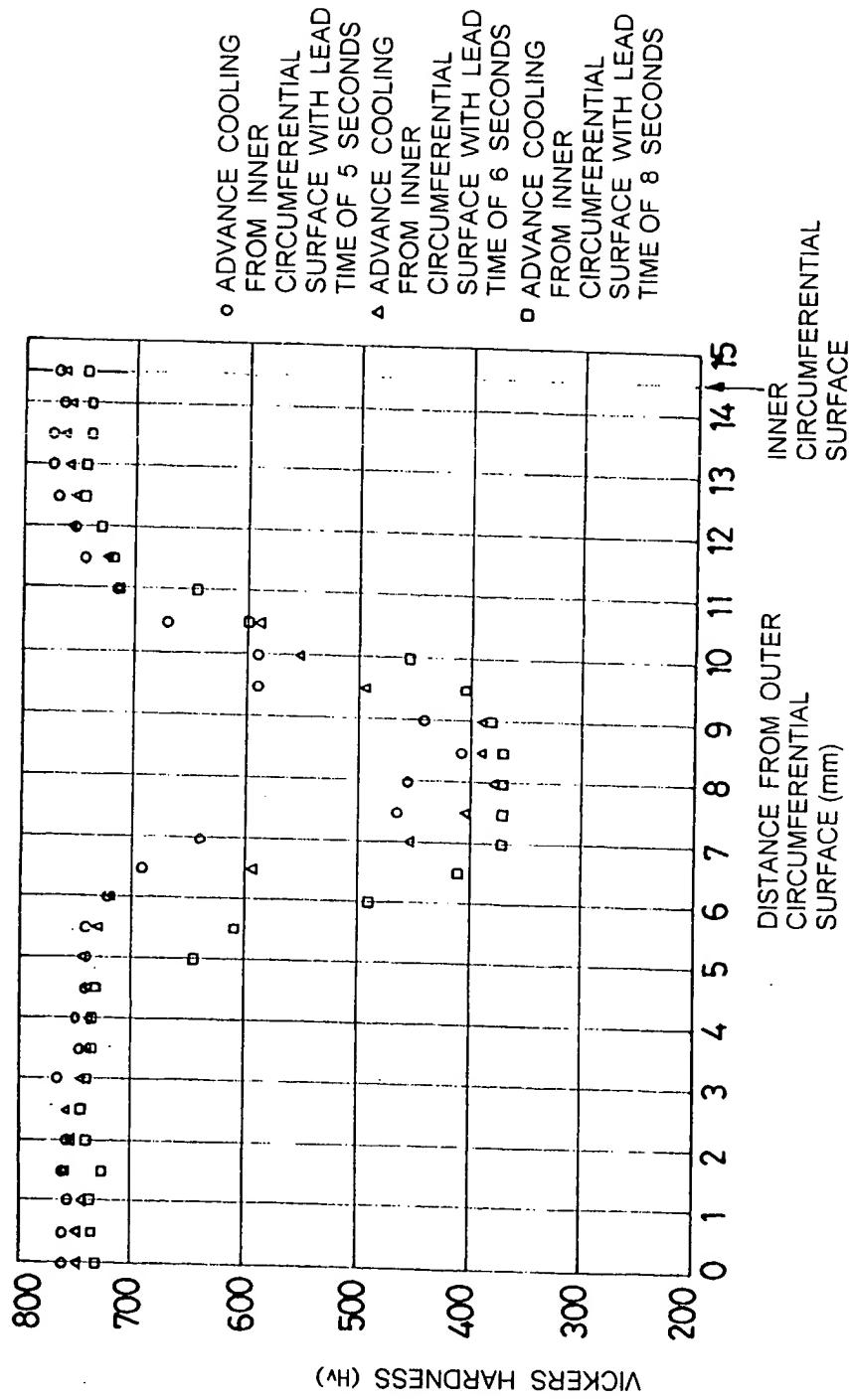


FIG. 18

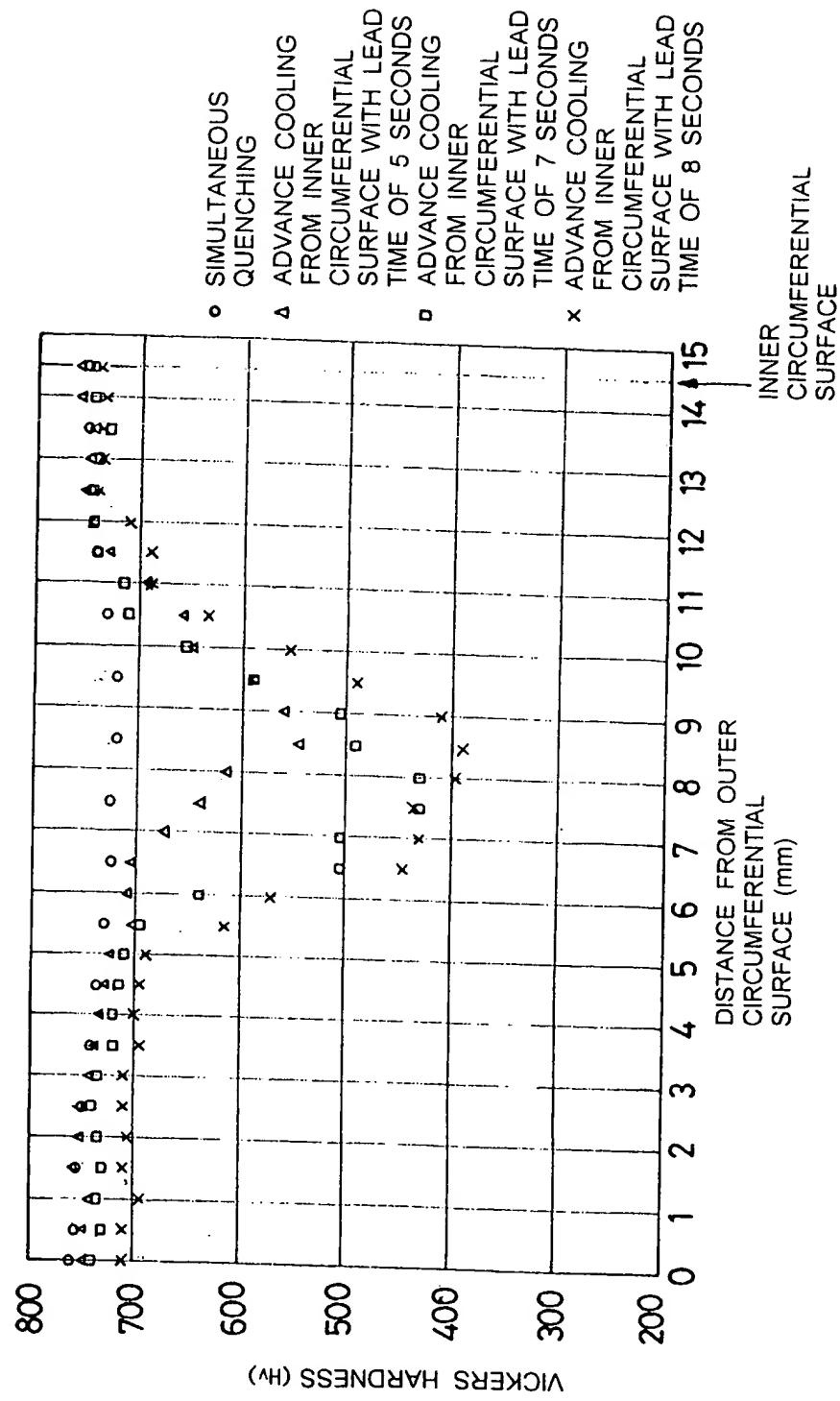


FIG. 19

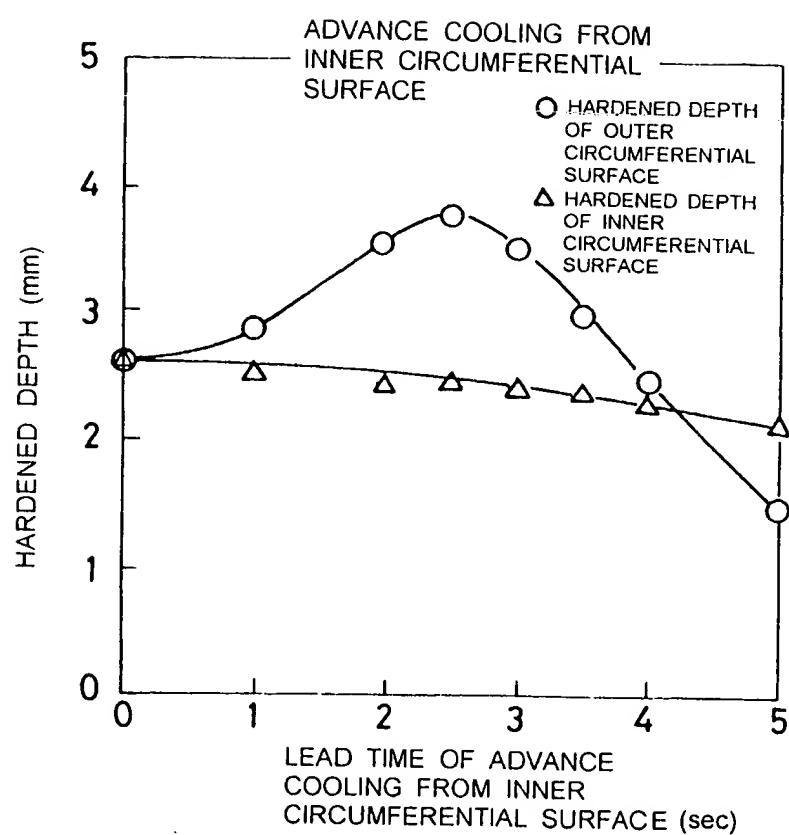


FIG. 20

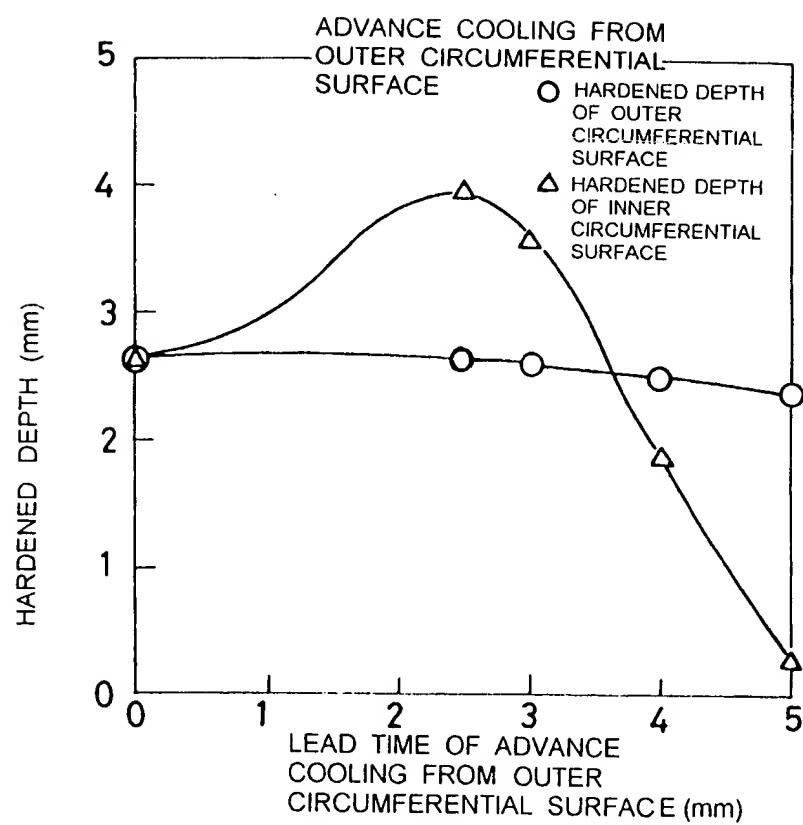


FIG. 21

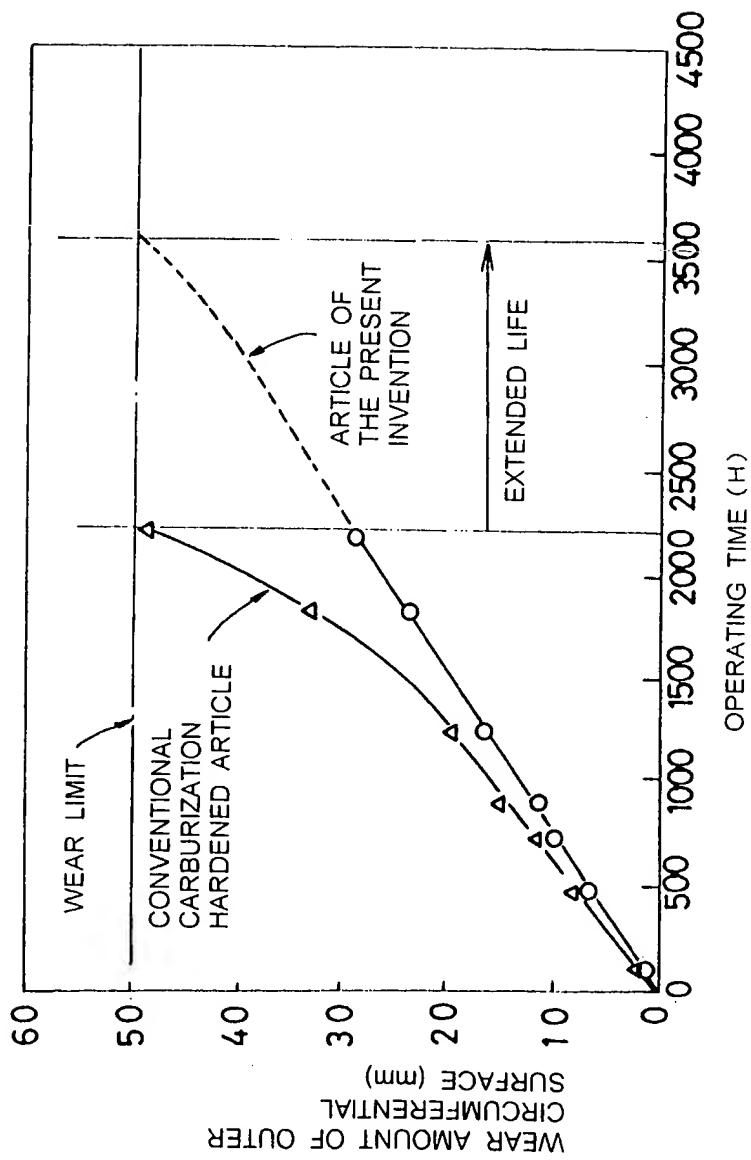
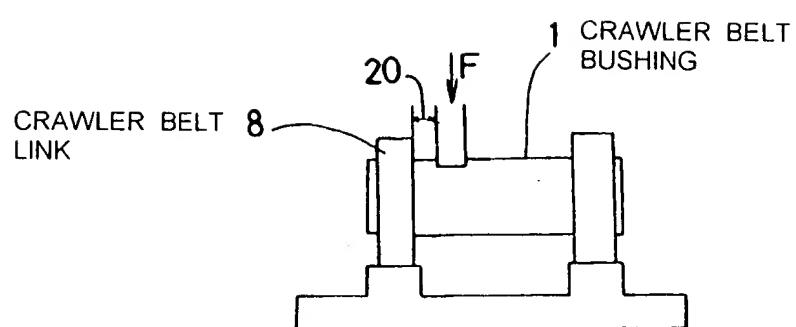


FIG. 22



$F = 2 \sim 37.5 \text{ TON}, 2.5 \text{ Hz}$

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FIG. 23

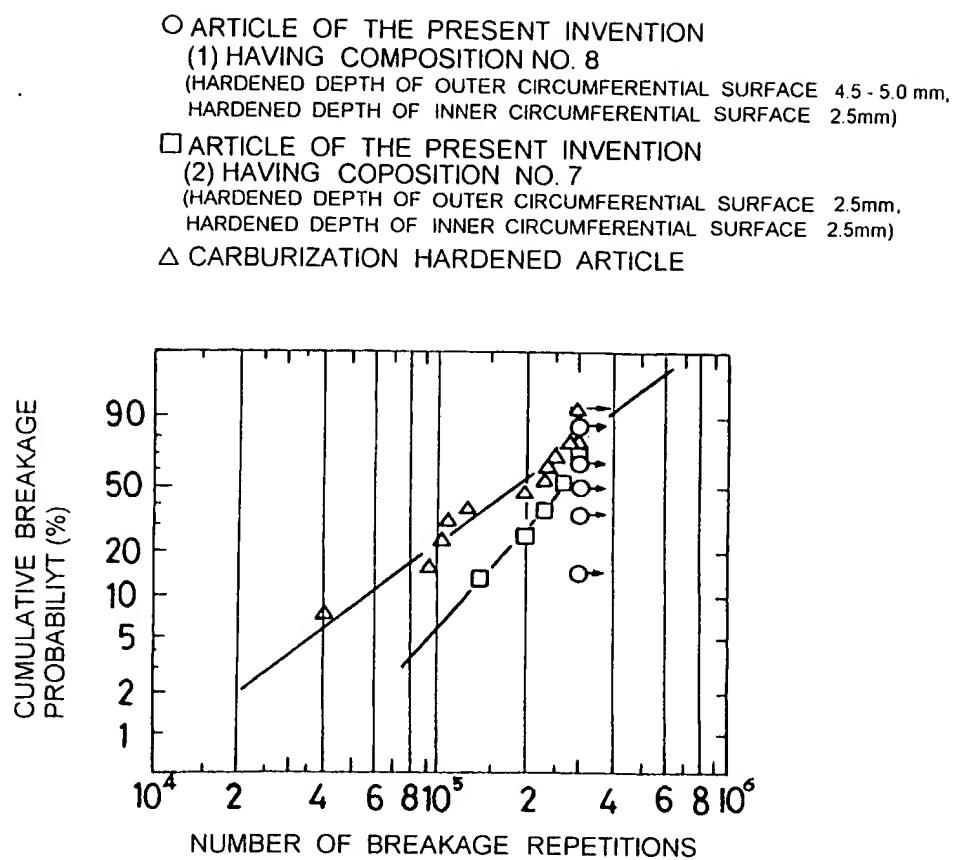


FIG. 24

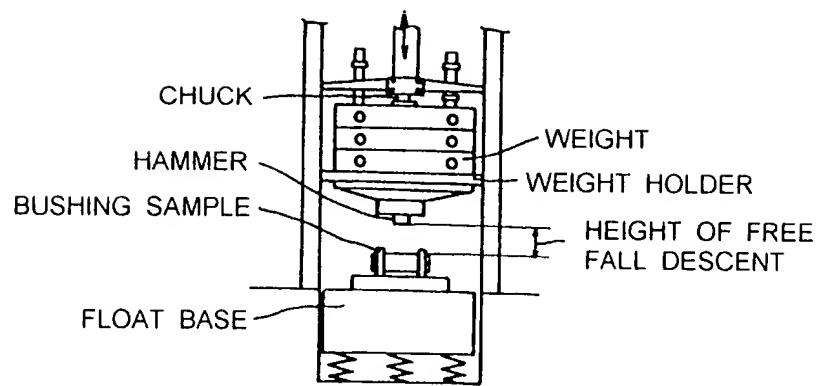


FIG. 25

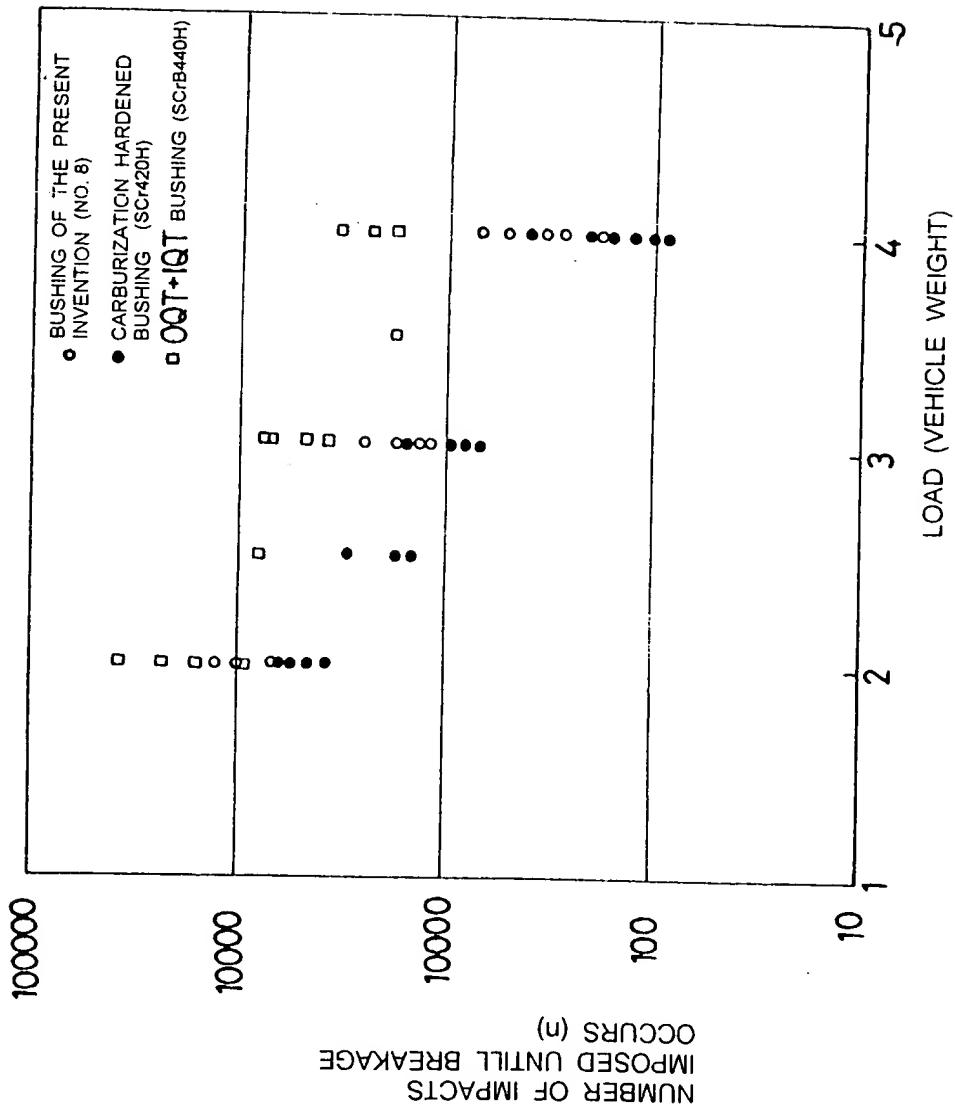


FIG. 26

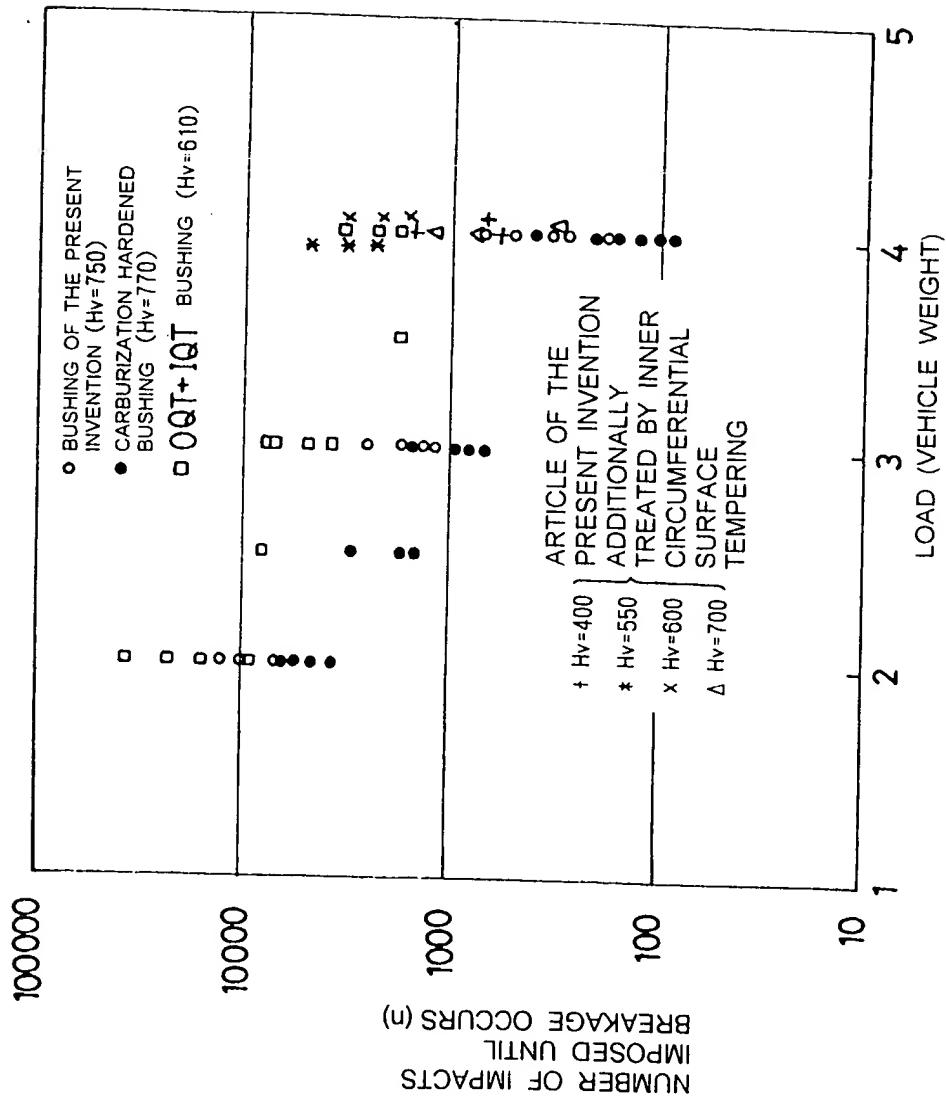


FIG. 27

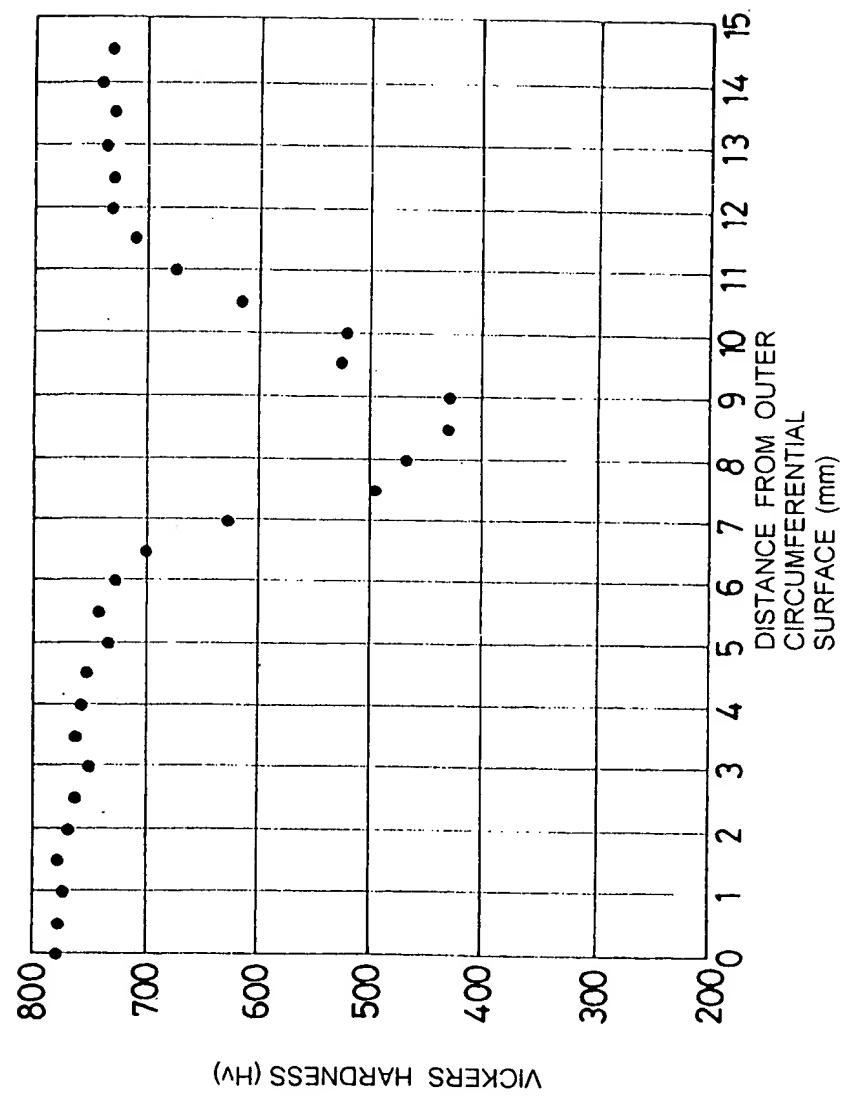


FIG. 28

TECHNIQUE OF QUENCHING

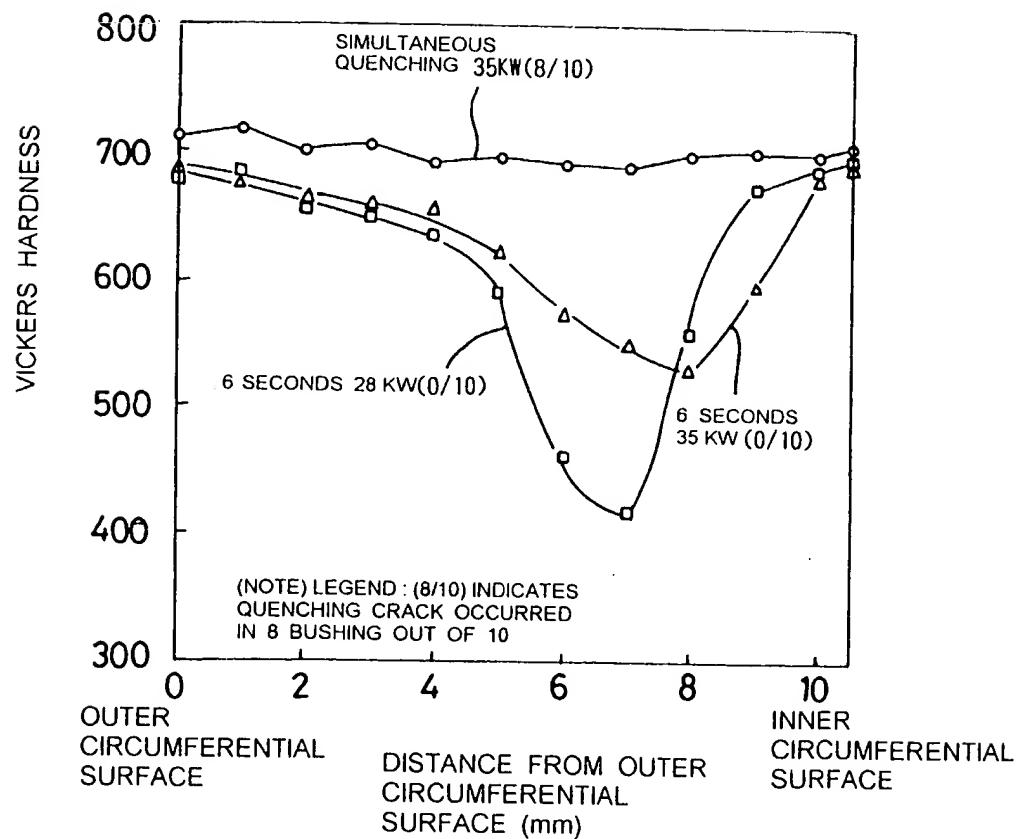


FIG. 29

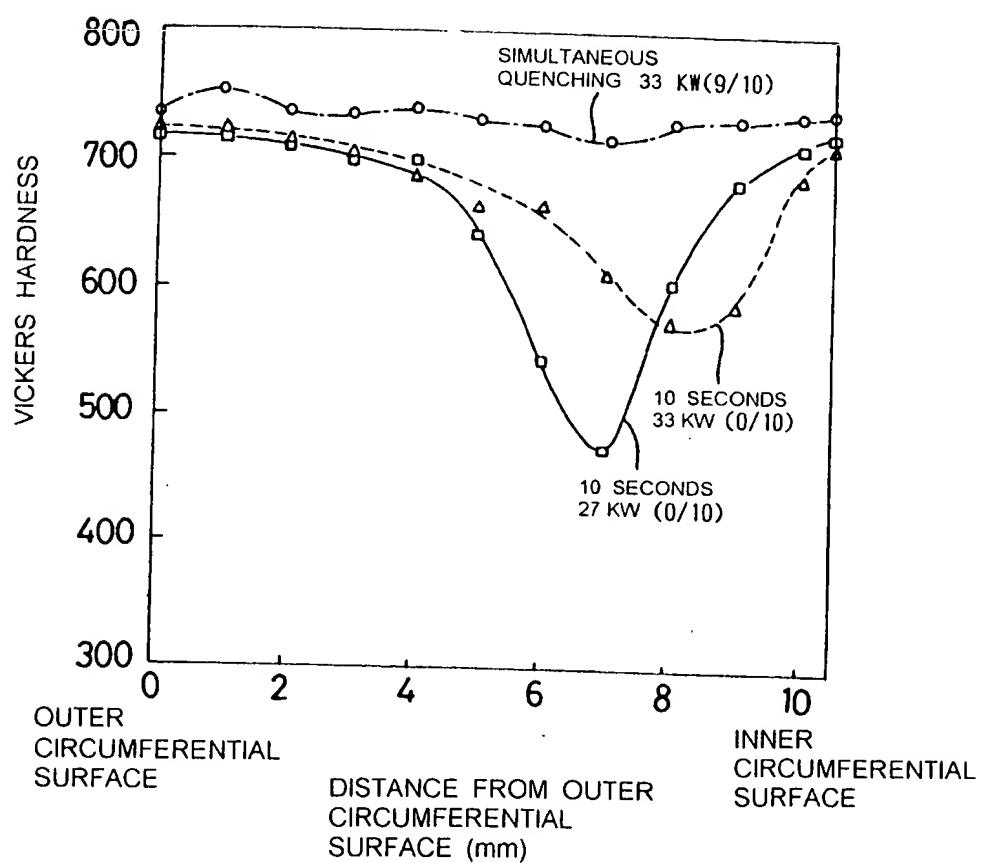


FIG. 30

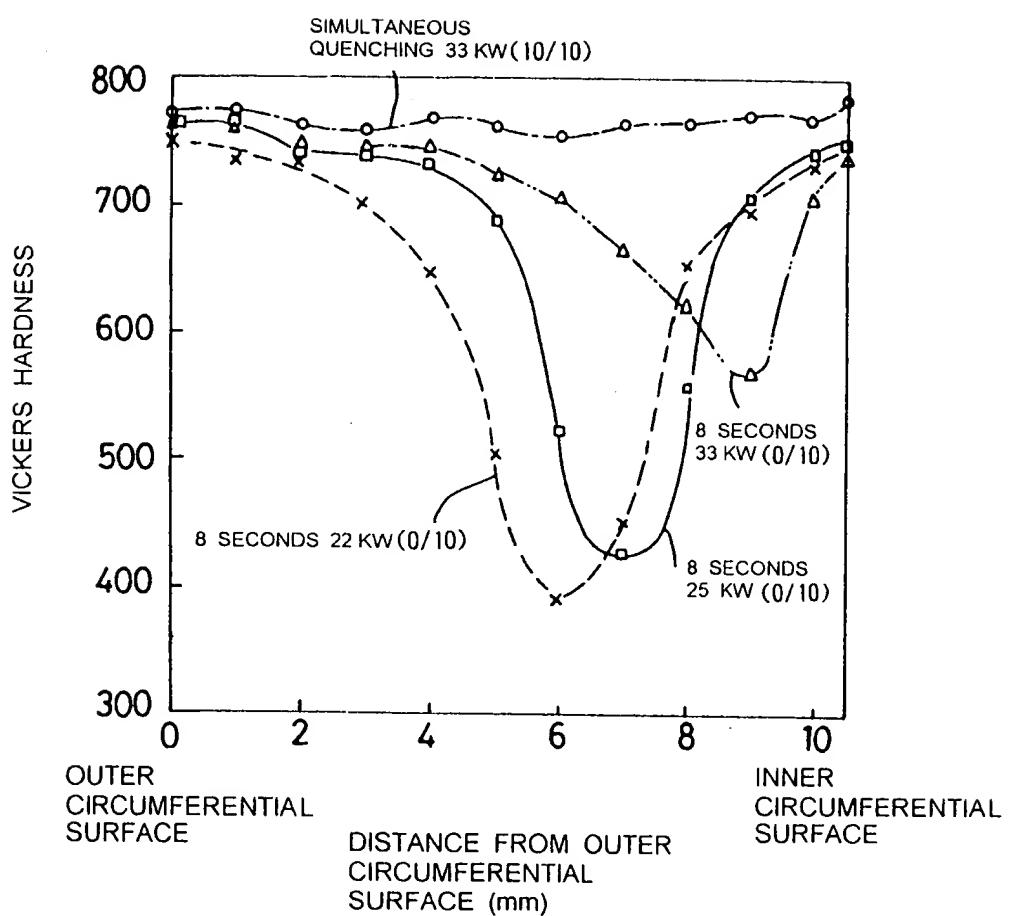
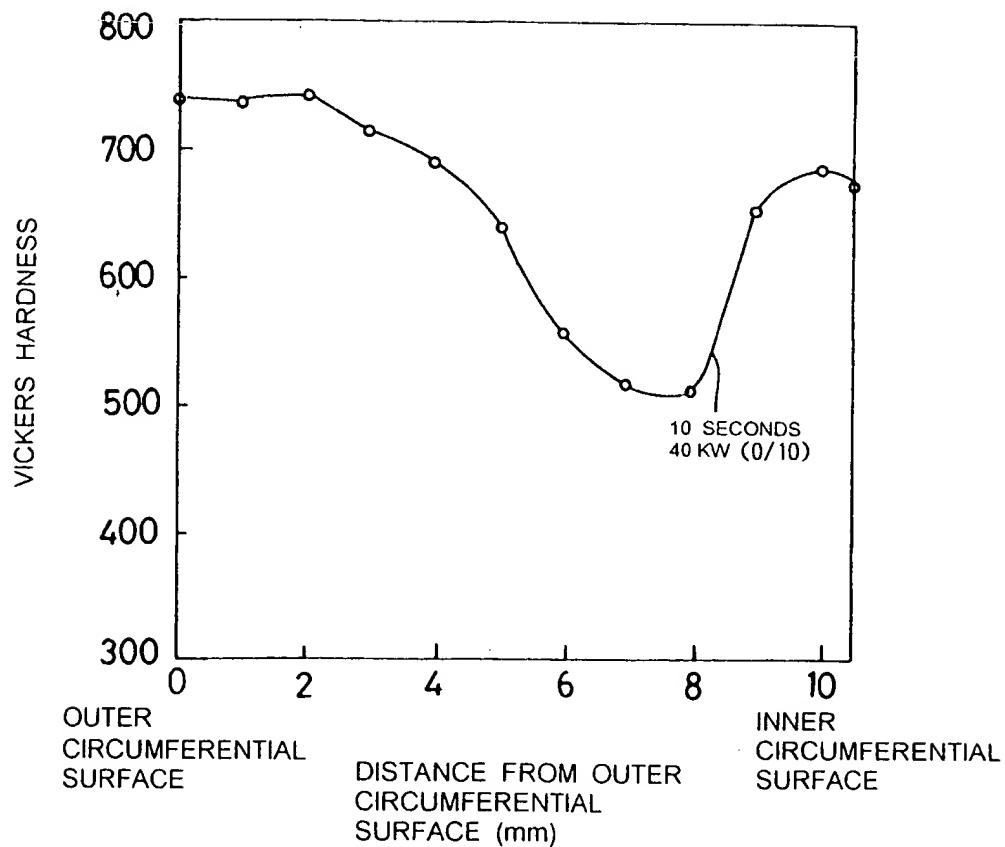
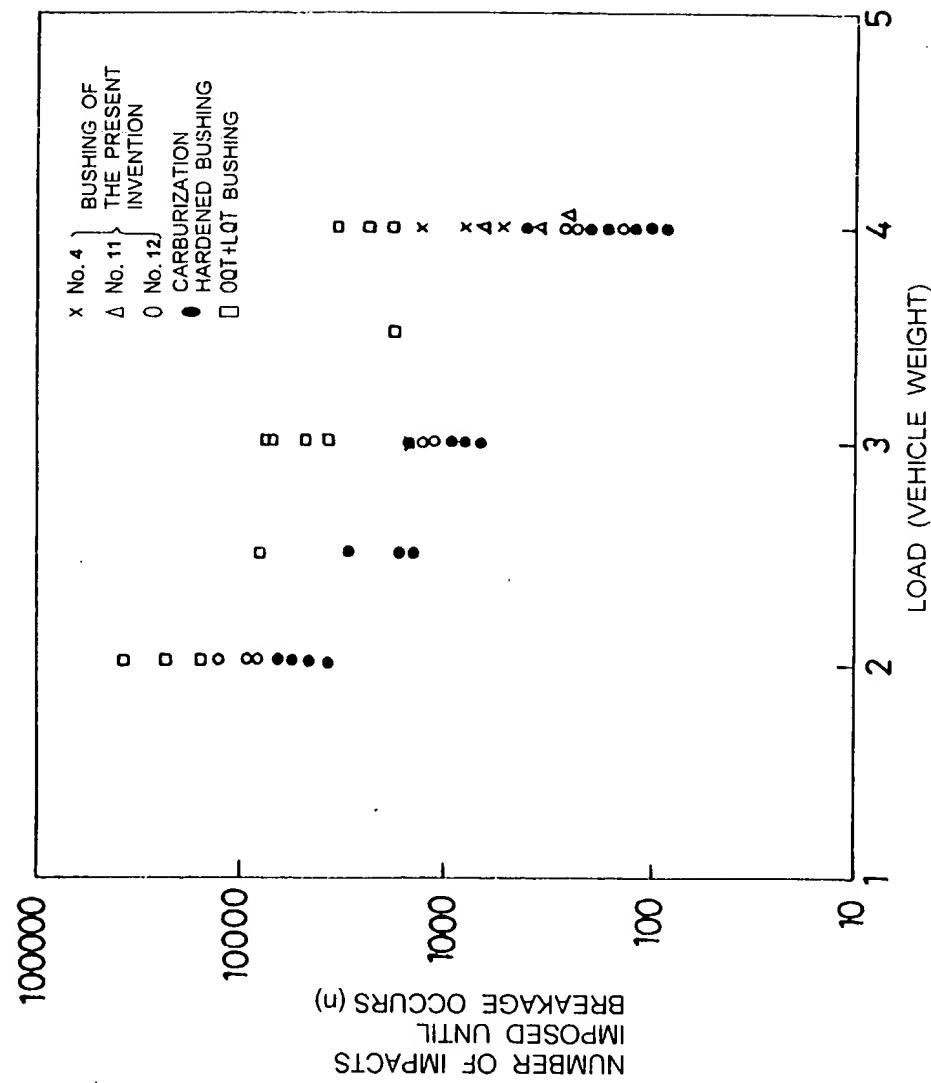


FIG. 31





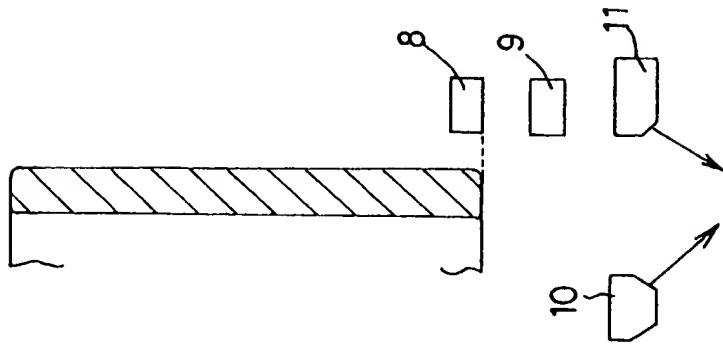


FIG. 34 (a)

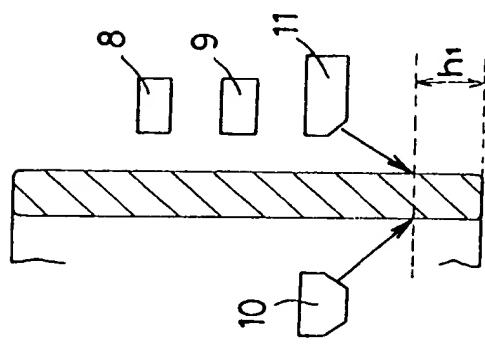


FIG. 34 (b)

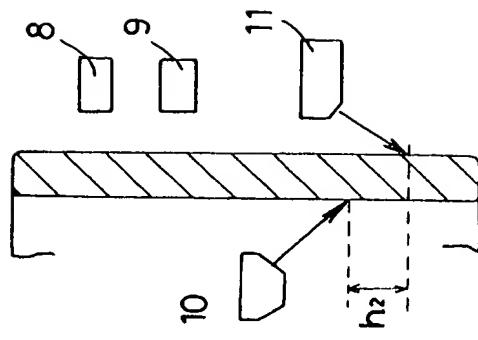
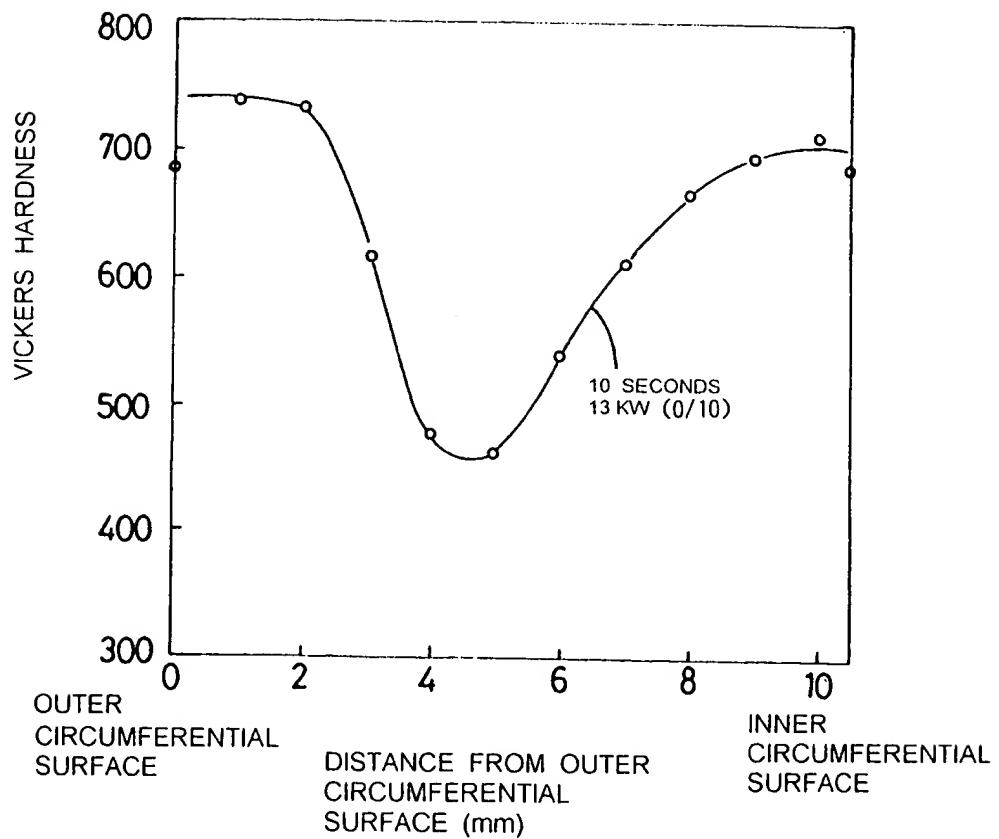


FIG. 34 (c)

FIG. 32



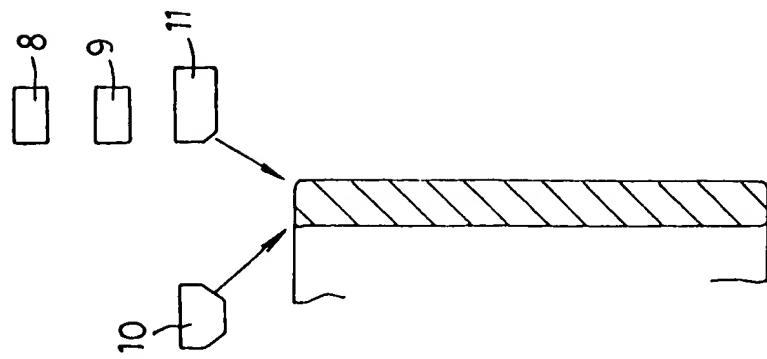


FIG. 34 (f)

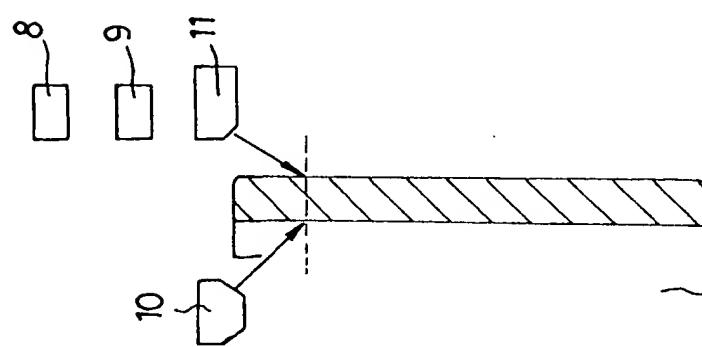


FIG. 34 (e)

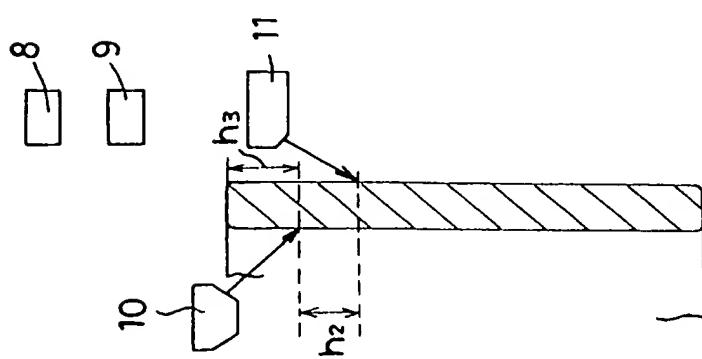


FIG. 34 (d)

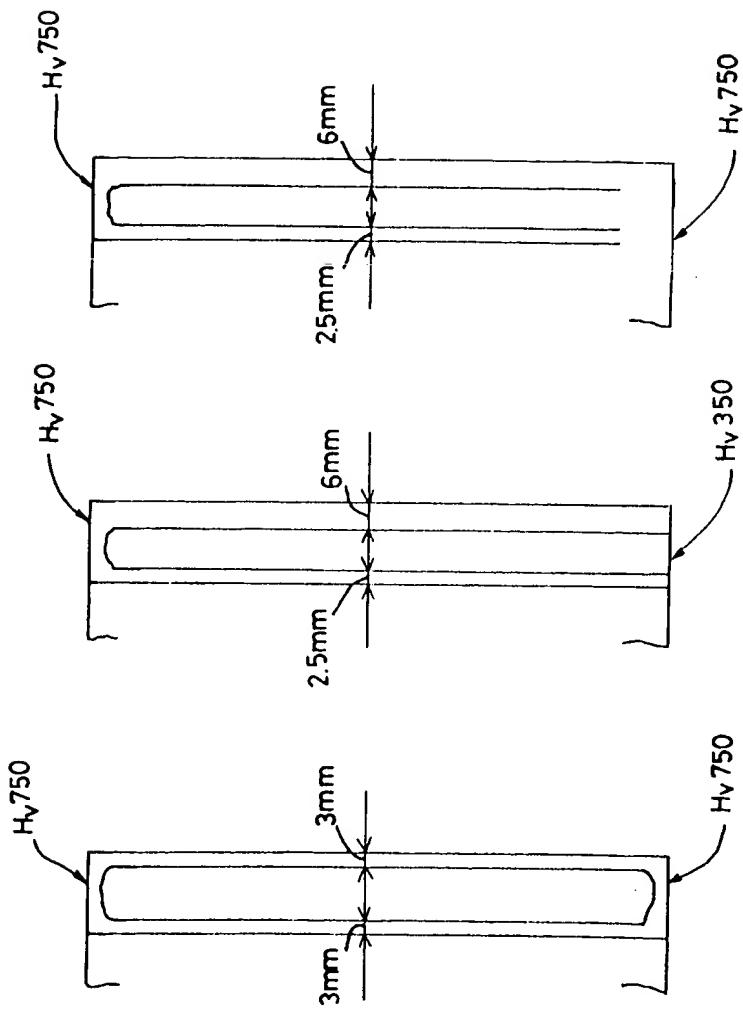


FIG. 35 (a)

FIG. 35 (b)

FIG. 35 (c)

FIG. 36

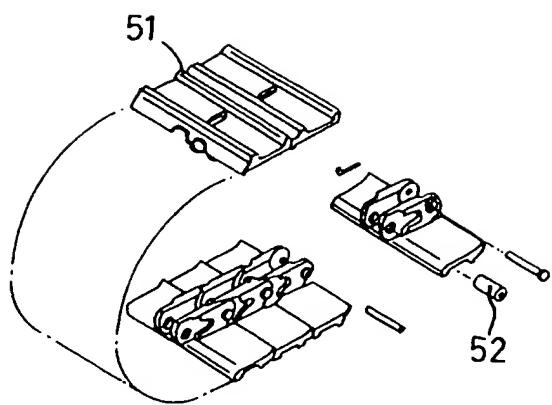


FIG. 37 (a)
CARBURIZATION
HARDENED BUSHING

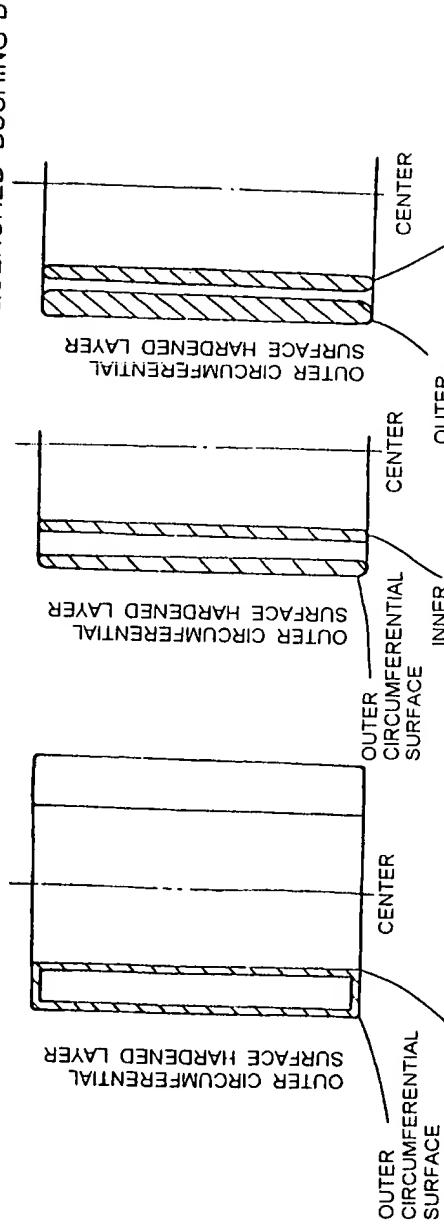


FIG. 37 (b)
INDUCTION
QUENCHED BUSHING A

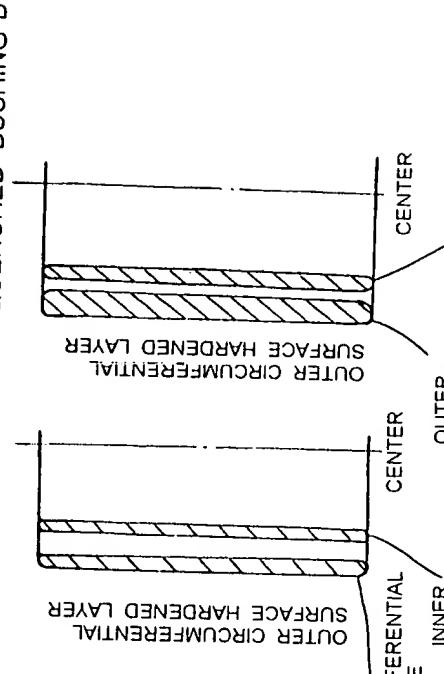


FIG. 37 (c)
INDUCTION
QUENCHED BUSHING B

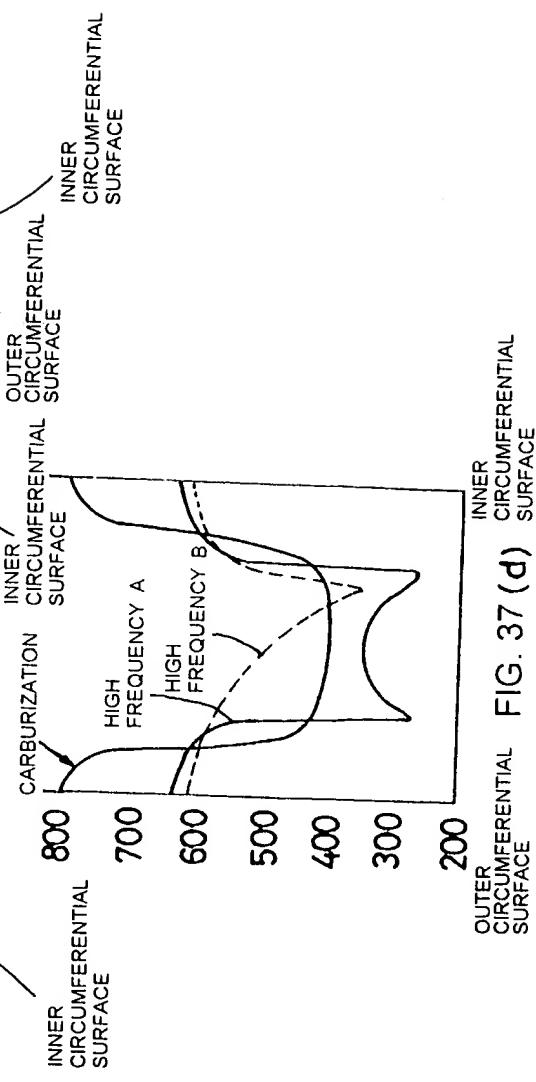
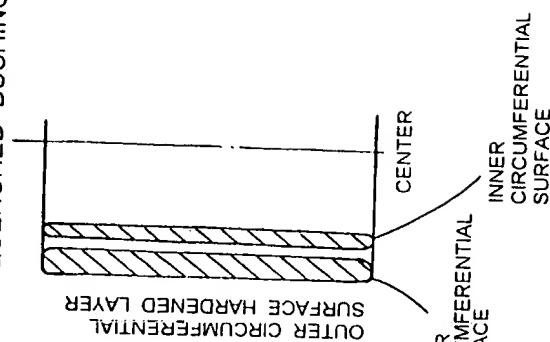


FIG. 37 (d)
OUTER CIRCUMFERNETIAL SURFACE
INNER CIRCUMFERNETIAL SURFACE